CODE NO. : 38134-362-040

INSTRUCTION MANUAL

51cm COLOUR TELEVISION
ON SCREEN DISPLAY
REMOTE CONTROL
MODEL : CB5012Z

READ THESE INSTRUCTIONS COMPLETELY BEFORE OPERATING YOUR SET.
DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY PRIOR NOTICE.

WARNING

To prevent a fire or shock hazard, do not expose the set to rain or moisture.
Dangerously high voltage are present inside the set.
Do not open the cabinet. Refer servicing to qualified personnel only.

PRECAUTION

- USE

Operate only on 160V - 260V, 50Hz AC

- INSTALLATION

Adeguate ventilation is essential to prevent the failure of electrical components.
Avoid exposing the TV set to direct sunlight and other sources of heat.

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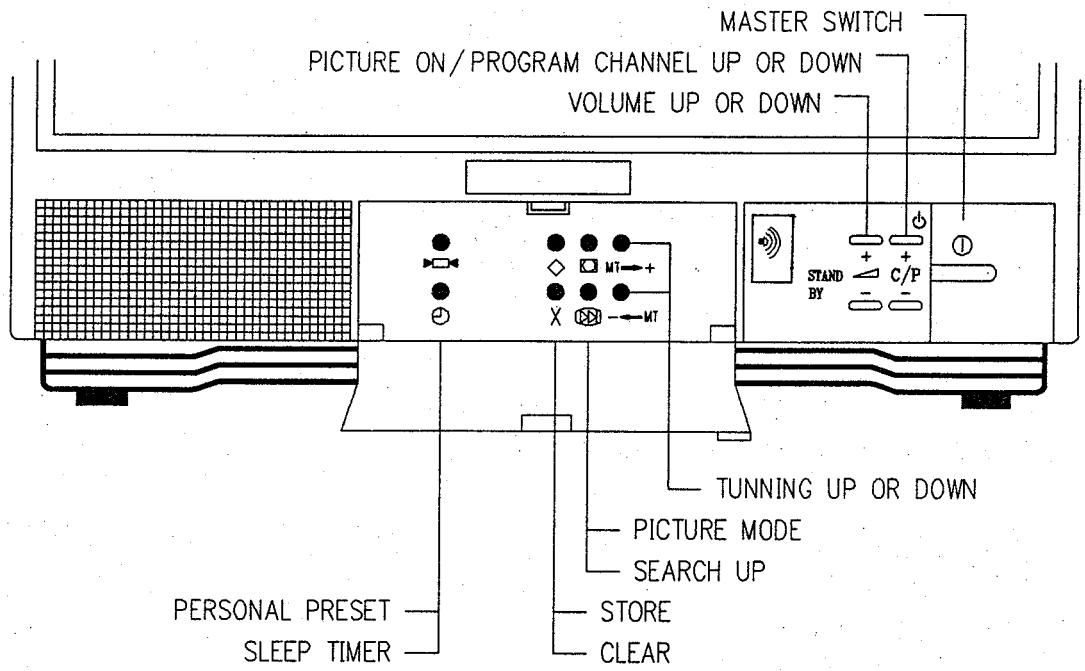
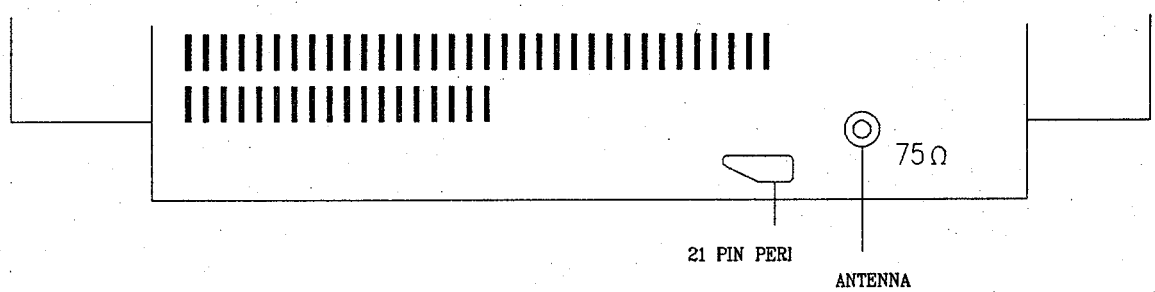
LOCATION OF CONTROLLERS & CONNECTIONS

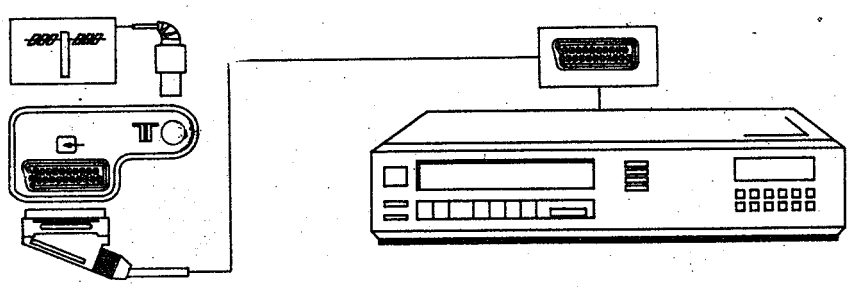
FRONT PANEL



REAR PANEL



EURO – AV Socket for peripheral units (VCR etc.)



1. MASTER SWITCH (⏻)

Press the master switch on the set. Then you will see the light of stand-by indicator located in the front pannel of the set.
Note :
When you leave the house for a long period of time, turn off the master switch.

2. CHANNEL/PROGRAMMING UP or DOWN (- C/P +)

Press once to increase or decrease the programme position.
When the TV set is in the stand-by mode, the TV set will be turned on whether you press button up/down.

3. VOLUME UP or DOWN (− +)

Press the ' + ' button to increase the sound.
Press the ' - ' button to decrease the sound.

4. MANUAL TUNING UP or DOWN (MT ⟶ + , - ⟵ MT)

Normally the manual tuning is not needed, but it can be useful under the extreme (poor) signal conditions (E.G. when search-tuning fails).
During manual tuning, the OSD will show the followings :
- the current selected with an analogue indication.
- "TUNE", together with an analogue indication.
- a tuning bar that indicates the position in the band.

Automatic following is suspended until the message has forded away.

5. PICTURE MODE COMMAND (▭)

The "PICTURE" command will make the following procedures rotate automatically :
BRIGHT ---> COLOUR ---> CONTRAST ---> VOLUME ---> BRIGHT.
Any of those picture modes above can be changed by pressing volume up/down button.

6. SEARCH UP BUTTON (⏩)

To start a search, the user has to press this "SEARCH" button. The OSD will show the currently selected band and analogue indication bar.
When the tuning reaches the top of a band, it will change to the next higher band.
To speed up the search this set has a possibility to change quickly to search the next band. If user presses his "SEARCH" button and keeps it pressed during 3 seconds, the system will change to the next band. Keeping the key pressend be will get a new band every second.

7. STORE (◇)

Memory required levels of COLOUR, BRIGHT, CONTRAST, VOLUME and program number.

8. CLEAR (X)

Reset all levels of analogue controls and erase the undesired program numbers.

9. PERSONAL PRESET (▶□◀)

The personal preset can be stored the analogue states (Colour, Bright, Contrast, Volume)
The personal preset button can be pressed to memorize the analogue states.

10. SLEEP TIMER (◴)

The TV set maybe pre-set to switched off after a fixed period. When pressing "SLEEP" key for the first time, the OSD will display the remaining minutes during 3 seconds while the function is visible. Each pressing of the "SLEEP" key will increment the time by 15 minute, up to two hours.

---> OFF ---> 15 ---> 30 ---> 45 ---> 60 ---> 75 ---> 90 ---> 105 ---> 120

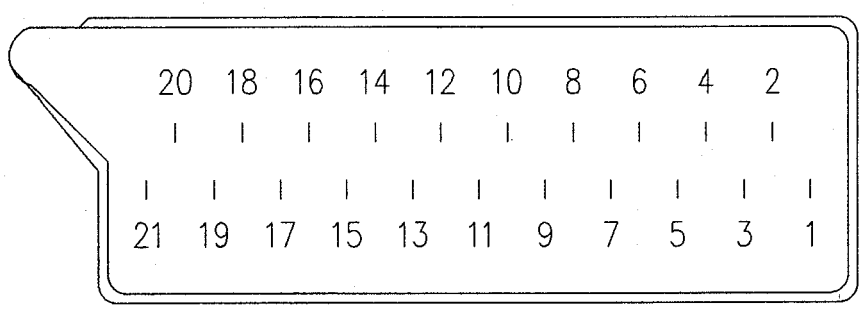
when the sleep timer function is activated, the television will be placed in stand-by after the selected time has passed.

11. PIN CONNECTION OF EURO-AV SOCKET (21 PIN PERI)

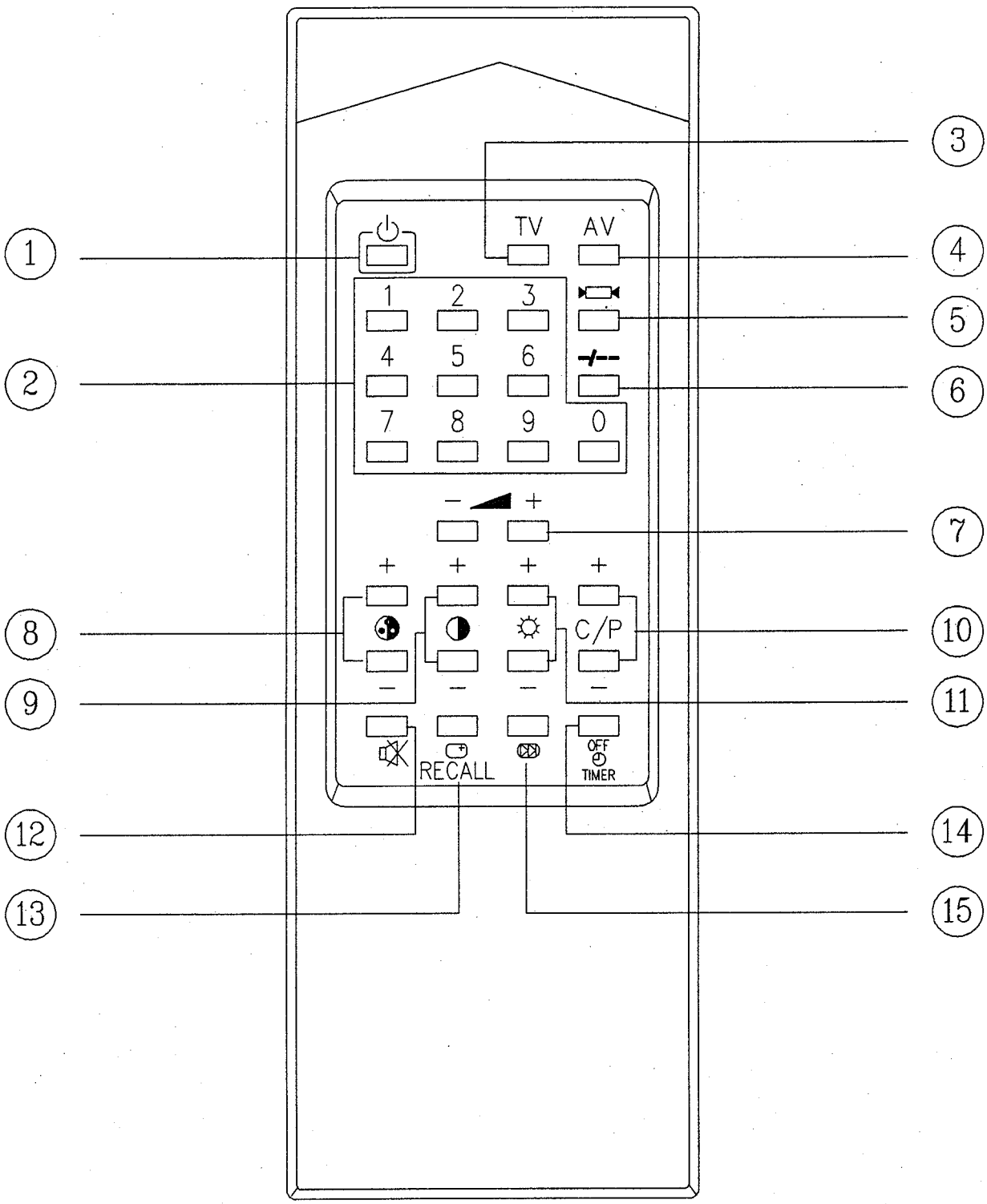
If you wish to connect peripheral equipment to your TV set, your dealer will be able to make the correction.

PIN	SIGNAL
1	Audio output R
2	Audio input R
3	Audio output L
4	Audio chassis return
5	Video chassis return (R.G.B blue)
6	Audio input L
7	R.G.B blue input
8	Switching pin
9	Video chassis return (R.G.B green)
10	- - -
11	R.G.B green input

PIN	SIGNAL
12	- - -
13	Video chassis return (R.G.B red)
14	- - -
15	R.G.B red input
16	Blanking signal (R.G.B switching)
17	Video chassis return
18	Blanking signal ground
19	Video output
20	Video input
21	Screening chassis return



REMOTE CONTROL TRANSMITTER



TUNING PROCEDURE

1. There are 40 programme positions (0 - 39) available i.e. 40 positions on which to store different channels.

1) Selecting a program can be done with digit keys "0" to "9" .
After tuning on, the system will always use "Single Digit" entry. You may change this by pressing "- / --" ("Single/Dule digit" key).
2) Using the programme UP/DOWN buttons on the TV set or remote control.

2. Tuning Procedure

To start a search, the user has to press his "Search" key. The OSD will show the current selected tuner band, system and an analogue indication of the tuning voltage (tuning position bar). Now the tuning will move to a higher frequency until a transmitter is found. Then the OSD will disappear and the user can store this tuning voltage in the memory with his "Store" key.
When the tuning reaches the top of a band, it will change to the next higher band. To speed up the search, this set has a possibility to change quickly to search the next band. If the user presses his "Search" key and keeps it pressed during 3 seconds, the system will change to the next band. keeping the key pressed, you will get a new band every second.

3. For cable TV subscribers

Your receiver can also receive special channels.
You can find out which channels are offered from the cable operator.
The table below shown, which channel bands you have to enter to receive special channels.

SPECIAL CHANNELS	CHANNEL BAND	SPECIAL CHANNELS	CHANNEL BAND
S1	VHF-L	S14	VHF-H
S2	VHF-H	S15	VHF-H
S3	VHF-H	S16	VHF-H
S4	VHF-H	S17	VHF-H
S5	VHF-H	S18	VHF-H
S6	VHF-H	S19	VHF-H
S7	VHF-H	S20	VHF-H
S8	VHF-H		
S9	VHF-H		
S10	VHF-H		
S11	VHF-H		
S12	VHF-H		
S13	VHF-H		

STORE AND CLEAR PROCEDURE

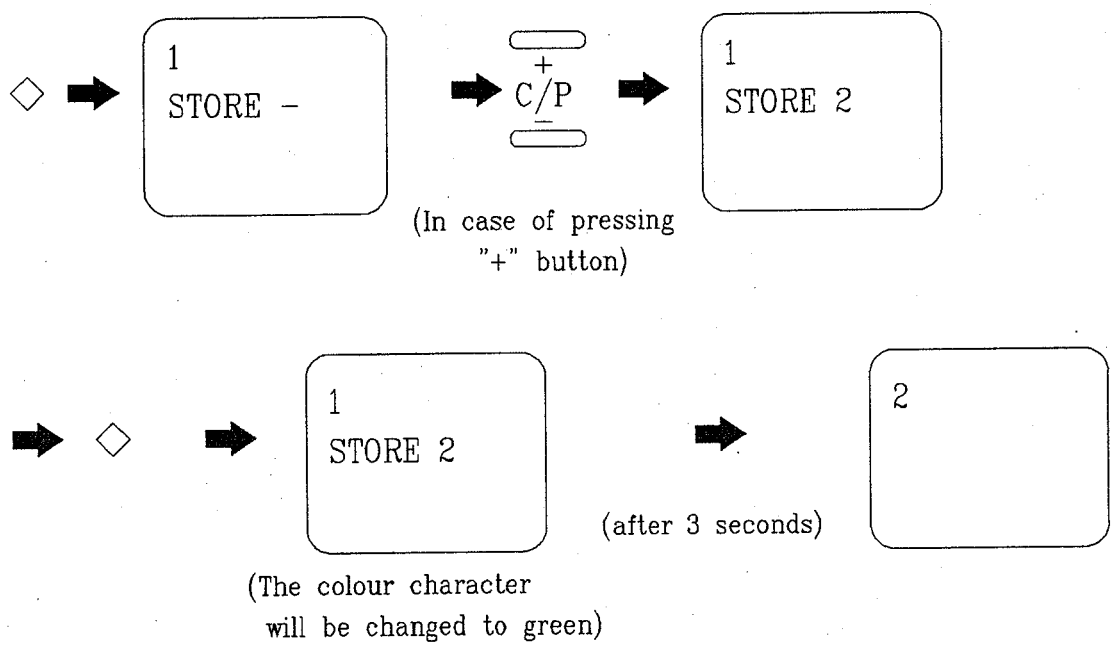
Both store and clear operations are done in the same way.

- Open the memory for a store or a clear action.
- Enter the item to be stored or cleared (program or personal presets).
- Press the store or clear key again to close the memory.

Any other command during this sequence will abandon the operation.

A program number can be entered, using program +/-, single/dual digit or digit commands.
The personal presets can be stored in the same way.
Clearing the personal presets will force all analogue controls :

- Volume to 20% and mute will be removed
- Brightness and Colour to 65%
- Contrast to 50%



REMOTE CONTROL OPERATION

1

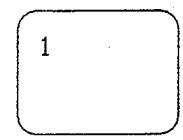
STAND-BY (⏻)
Press this button to turn the TV off for the short periods.

2

DIRECT PROGRAMME SELECTION
Press these buttons to select programme positions.
And to start on directly, push one of the '0 - 9' keys.

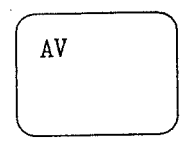
3

TV SELECTION (TV)
One depression makes the mode change from VIDEO mode to TV mode.



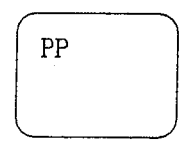
4

AV SELECTION (AV)
One depression makes the mode change from TV mode to VIDEO mode.



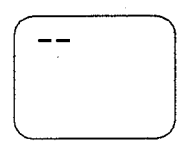
5

PERSONAL PRESET (▶□◀)
The presonal preset can store the analoge states (Colour, Bright, Contrast, Volume)



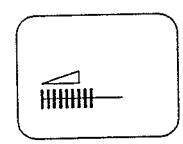
6

SINGLE/DUAL DIGIT (-/--)
Press this button to select doubled figure programme position (10 - 39).



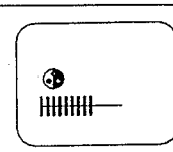
7

VOLUME UP/DOWN (- ◢ +)
Press the '+' button to increase the sound. Press the '-' button to decrease the sound.

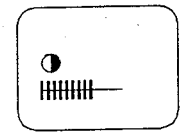


8

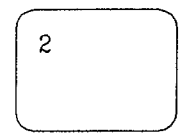
COLOUR UP/DOWN (- ◔ +)
Press the '+' button to increase the colour level. Press the '-' button to decrease the colour level.



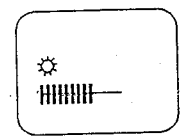
9 CONTRAST UP/DOWN (- ◑ +)
Press the '+' button to increase the contrast level. Press the '-' button to decrease the contrast level.



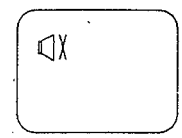
10 CHANNEL PROGRAMMING SELECTION (- C/P +)
Press these buttons to select channel programming position, and to start on directly.



11 BRIGHTNESS UP/DOWN (- ☼ +)
Press the '+' button to increase the brightness. Press the '-' button to decrease the brightness.



12 MUTE (🔇)
Press this button to mute the sound.



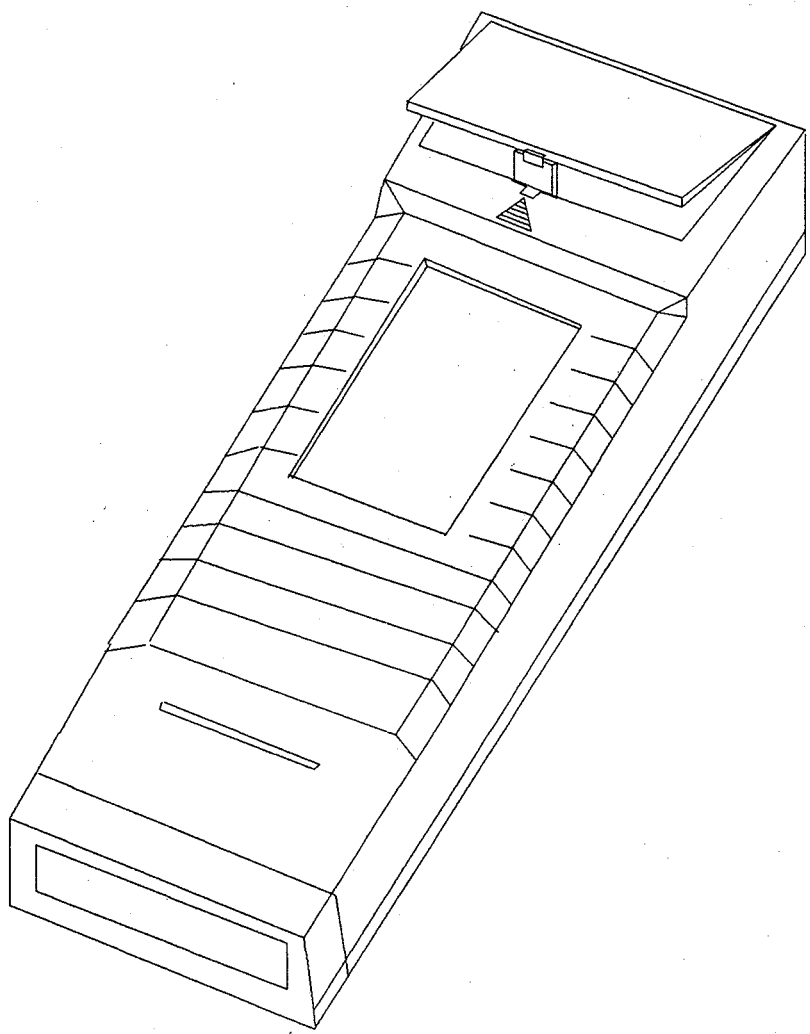
13 RECALL (⏎)
Press this button to turn the TV on, and it will be recalled the last channel position before you turn off.

14 OFF TIMER (◴)
This feature enables your TV set to be turned off after a certain period of the time you set.

15 SEARCH UP (⏭)
This button will automatically search up the signals you want.

REMOTE CONTROL BATTERY

If the TV no longer respond to the signal from the remote control handset, the battery is probably exhausted. An exhausted battery should be remote control unit, as no responsibility is taken for damage caused by a leaking battery. You may change the battery yourself. To remove the battery cover like below figure, press the catch in the direction of the arrow.
Use a 9V battery or equivalent.



TROUBLE SHOOTING CHART

In case of difficulty ..... before you call for service, determine the symptoms and maked few simple checks as follows :

SYMPTOMS	CHECKS
No brightness No Sound	Power line Brightness and Volume buttons (◊ Memory position checkcs)
Snow on Screen Noisy Sound	Colour button Aerial Connection
No Colour Normal or weak sound	Colour button Aerial Connection
Multiple image Normal Sound	Direction and location of aerial
Interference on Screen Distorted noisy Sound	Appliances, light, cars electrical equipment etc.
Remote control mal functions or reduction in the operating distance	Replace batteries Check battery terminals Clean indicator window